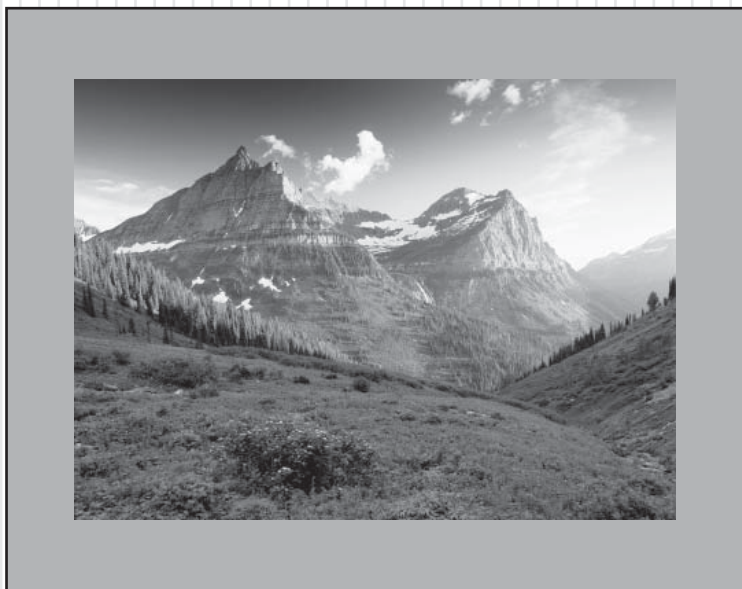


Montana
Comprehensive Assessment
System (MontCAS, Phase 2)
Criterion-Referenced Test (CRT)

COMMON CONSTRUCTED-RESPONSE ITEM RELEASE
MATHEMATICS, GRADE 3

2009



OFFICE OF PUBLIC INSTRUCTION

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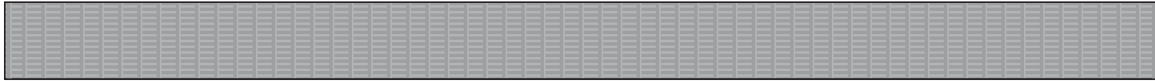
Mathematics

Session 3 (Calculator)

You may use a calculator during this part of the test.

Write out your answer in the box below.

72. Fred needs a piece of ribbon the length shown below to make one puppet.



- a. Use your ruler to find the length of the piece of ribbon to the nearest inch.

_____ inches

Fred bought 4 feet of ribbon to make puppets.

- b. How many inches of ribbon did he buy? Show or explain how you found your answer.

- c. How many puppets can Fred make using all 4 feet of ribbon?

Scoring Guide

Score	Description
4	4 points
3	3 points
2	2 points
1	1 point
0	Response is incorrect or contains some correct work that is irrelevant to the skill or concept being measured.
Blank	No response.

Scoring Notes

Part a: 1 point	correct answer, 6 or 6 inches
Part b: 2 points OR 1 point	correct answer, 48 or 48 inches , with work shown or explanation correct answer, 48 or 48 inches , without work shown or explanation or correct strategy with computational error
Part c: 1 point	correct answer, 8 or correct answer based on incorrect answer in part a or b

Sample Responses:

Part b: $12 + 12 + 12 + 12 = 48$

There are 12 inches in 1 foot, so 48 inches equals 4 feet.

Score Point 4

Sample 1

72. Fred needs a piece of ribbon the length shown below to make one puppet.



- a. Use your ruler to find the length of the piece of ribbon to the nearest inch.

6 inches

Fred bought 4 feet of ribbon to make puppets.

- b. How many inches of ribbon did he buy? Show or explain how you found your answer.

12, 24, 36, 48,

- c. How many puppets can Fred make using all 4 feet of ribbon?

8 inches

Score Point 4

Sample 2

72. Fred needs a piece of ribbon the length shown below to make one puppet.



a. Use your ruler to find the length of the piece of ribbon to the nearest inch.

6 inches

Fred bought 4 feet of ribbon to make puppets.

b. How many inches of ribbon did he buy? Show or explain how you found your answer.

Fred bought forty eight inches of ribbon. I counted twelve four times.

c. How many puppets can Fred make using all 4 feet of ribbon?

Fred can make eight puppets in all because forty eight divided by four equals eight.

Score Point 3

Sample 1

72. Fred needs a piece of ribbon the length shown below to make one puppet.



- a. Use your ruler to find the length of the piece of ribbon to the nearest inch.

6 inches

Fred bought 4 feet of ribbon to make puppets.

- b. How many inches of ribbon did he buy? Show or explain how you found your answer.

I counted by 12 to 48.

- c. How many puppets can Fred make using all 4 feet of ribbon?

He can make 78 puppets

Score Point 3

Sample 2

72. Fred needs a piece of ribbon the length shown below to make one puppet.



- a. Use your ruler to find the length of the piece of ribbon to the nearest inch.

7 inches

Fred bought 4 feet of ribbon to make puppets.

- b. How many inches of ribbon did he buy? Show or explain how you found your answer.

48 inches

$$12 \times 4 = 48$$

- c. How many puppets can Fred make using all 4 feet of ribbon?

6 puppets with 6 inches left over

Score Point 3

Sample 3

72. Fred needs a piece of ribbon the length shown below to make one puppet.



- a. Use your ruler to find the length of the piece of ribbon to the nearest inch.

6 inches

Fred bought 4 feet of ribbon to make puppets. 48

- b. How many inches of ribbon did he buy? Show or explain how you found your answer.

I just a calculate

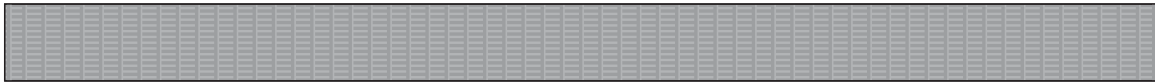
- c. How many puppets can Fred make using all 4 feet of ribbon?

8

Score Point 2

Sample 1

72. Fred needs a piece of ribbon the length shown below to make one puppet.



- a. Use your ruler to find the length of the piece of ribbon to the nearest inch.

7 inches

Fred bought 4 feet of ribbon to make puppets.

- b. How many inches of ribbon did he buy? Show or explain how you found your answer.

$$\begin{array}{r} 12 \\ + 12 \\ + 12 \\ + 12 \\ \hline 48 \end{array}$$

- c. How many puppets can Fred make using all 4 feet of ribbon?

16

Score Point 2

Sample 2

72. Fred needs a piece of ribbon the length shown below to make one puppet.



a. Use your ruler to find the length of the piece of ribbon to the nearest inch.

6 inches

Fred bought 4 feet of ribbon to make puppets.

b. How many inches of ribbon did he buy? Show or explain how you found your answer.

I got 52 in because
12 4 times. then I got
52 in as my answer

c. How many puppets can Fred make using all 4 feet of ribbon?

he can make 4 puppets

Score Point 2

Sample 3

72. Fred needs a piece of ribbon the length shown below to make one puppet.



a. Use your ruler to find the length of the piece of ribbon to the nearest inch.

7 inches

Fred bought 4 feet of ribbon to make puppets.

b. How many inches of ribbon did he buy? Show or explain how you found your answer.

48 inches. I used a calculator and mental math.

c. How many puppets can Fred make using all 4 feet of ribbon?

8 puppets



Score Point 1

Sample 1

72. Fred needs a piece of ribbon the length shown below to make one puppet.



- a. Use your ruler to find the length of the piece of ribbon to the nearest inch.

30 inches

Fred bought 4 feet of ribbon to make puppets.

- b. How many inches of ribbon did he buy? Show or explain how you found your answer.

120 inches of ribbon.

- c. How many puppets can Fred make using all 4 feet of ribbon?

4 puppets

Score Point 0

Sample 1

72. Fred needs a piece of ribbon the length shown below to make one puppet.

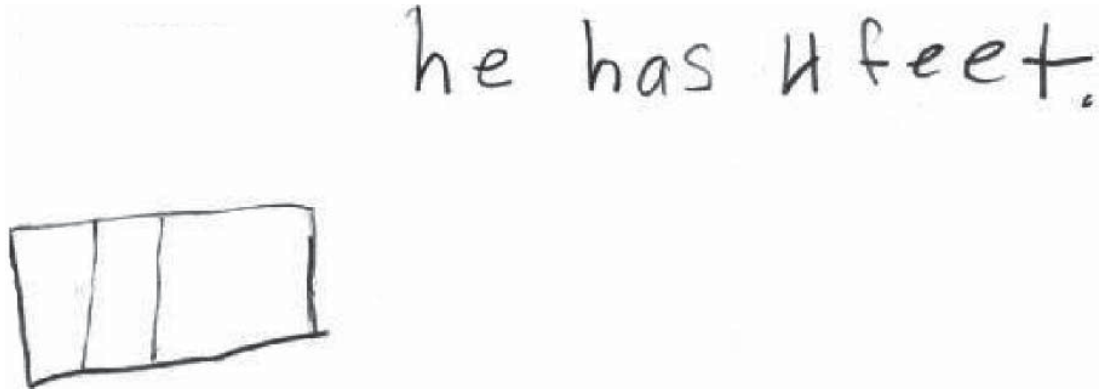


- a. Use your ruler to find the length of the piece of ribbon to the nearest inch.

15 inches

Fred bought 4 feet of ribbon to make puppets.

- b. How many inches of ribbon did he buy? Show or explain how you found your answer.



- c. How many puppets can Fred make using all 4 feet of ribbon?

